

=> d his

STN Search History

(FILE 'HOME' ENTERED AT 13:49:55 ON 18 OCT 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 13:50:17 ON 18 OCT 2002

SEA IGIF OR ((INTERFERON-GAMA OR INTERFERON(A)GAMMA OR IF-GAMMA

534 FILE ADISALERTS
156 FILE ADISINSIGHT
214 FILE ADISNEWS
152 FILE AGRICOLA
6 FILE ANABSTR
4 FILE AQUASCI
38 FILE BIOBUSINESS
41 FILE BIOCOMMERCE
12749 FILE BIOSIS
457 FILE BIOTECHABS
457 FILE BIOTECHDS
7409 FILE BIOTECHNO
1272 FILE CABA
11221 FILE CANCERLIT
10572 FILE CAPLUS
22 FILE CEABA-VTB
13 FILE CEN
9 FILE CIN
169 FILE CONFSCI
3 FILE CROPU
15 FILE DDFB
1228 FILE DDFU
1631 FILE DGENE
15 FILE DRUGB
30 FILE DRUGNL
1493 FILE DRUGU
32 FILE DRUGUPDATES
180 FILE EMBAL
11880 FILE EMBASE
6327 FILE ESBIODASE
585* FILE FEDRIP
13 FILE FROSTI
15 FILE FSTA
946 FILE GENBANK
8 FILE HEALSAFE
125 FILE IFIPAT
480 FILE JICST-EPLUS
50 FILE KOSMET
5863 FILE LIFESCI
12449 FILE MEDLINE
38 FILE NIOSHTIC
38 FILE NTIS
1 FILE OCEAN
4541 FILE PASCAL
7 FILE PHAR
7 FILE PHARMAML
1 FILE PHIC
48 FILE PHIN
787 FILE PROMT

10509 FILE SCISEARCH
3778 FILE TOXCENTER
9066 FILE USPATFULL
86 FILE USPAT2
108 FILE VETU
271 FILE WPIDS
271 FILE WPINDEX

L1 QUE IGIF OR ((INTERFERON-GAMA OR INTERFERON(A) GAMMA OR IF-GAMM

SEA INF-GAMMA (S) INDUC?

4 FILE ADISALERTS
2 FILE ADISINSIGHT
1 FILE ADISNEWS
3 FILE AGRICOLA
1 FILE BIOBUSINESS
292 FILE BIOSIS
8 FILE BIOTECHABS
8 FILE BIOTECHDS
126 FILE BIOTECHNO
24 FILE CABA
226 FILE CANCERLIT
130 FILE CAPLUS
2 FILE CONFSCI
38 FILE DDFU
87 FILE DRUGU
6 FILE EMBAL
252 FILE EMBASE
136 FILE ESBIODBASE
17* FILE FEDRIP
1 FILE HEALSAFE
5 FILE IFIPAT
45 FILE JICST-EPLUS
1 FILE KOSMET
104 FILE LIFESCI
255 FILE MEDLINE
2 FILE NTIS
85 FILE PASCAL
3 FILE PROMT
208 FILE SCISEARCH
79 FILE TOXCENTER
143 FILE USPATFULL
1 FILE USPAT2
10 FILE WPIDS
10 FILE WPINDEX

L2 QUE INF-GAMMA (S) INDUC?

SEA L1 OR L2

534 FILE ADISALERTS
156 FILE ADISINSIGHT
214 FILE ADISNEWS
153 FILE AGRICOLA
6 FILE ANABSTR
4 FILE AQUASCI
39 FILE BIOBUSINESS
41 FILE BIOCOMMERCE
12902 FILE BIOSIS
462 FILE BIOTECHABS
462 FILE BIOTECHDS
7477 FILE BIOTECHNO

1285 FILE CABA
 11344 FILE CANCERLIT
 10625 FILE CAPLUS
 22 FILE CEABA-VTB
 13 FILE CEN
 9 FILE CIN
 171 FILE CONFSCI
 3 FILE CROPU
 15 FILE DDFB
 1259 FILE DDFU
 1631 FILE DGENE
 15 FILE DRUGB
 30 FILE DRUGNL
 1564 FILE DRUGU
 32 FILE DRUGUPDATES
 183 FILE EMBAL
 12009 FILE EMBASE
 6396 FILE ESBIOBASE
 597* FILE FEDRIP
 13 FILE FROSTI
 15 FILE FSTA
 946 FILE GENBANK
 8 FILE HEALSAFE
 130 FILE IFIPAT
 515 FILE JICST-EPLUS
 50 FILE KOSMET
 5931 FILE LIFESCI
 12590 FILE MEDLINE
 38 FILE NIOSHTIC
 39 FILE NTIS
 1 FILE OCEAN
 4584 FILE PASCAL
 7 FILE PHAR
 7 FILE PHARMAML
 1 FILE PHIC
 48 FILE PHIN
 787 FILE PROMT
 10621 FILE SCISEARCH
 3830 FILE TOXCENTER
 9066 FILE USPATFULL
 86 FILE USPAT2
 108 FILE VETU
 278 FILE WPIDS
 278 FILE WPINDEX

L3 QUE L1 OR L2

FILE 'MEDLINE, CANCERLIT, CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT
 13:58:56 ON 18 OCT 2002

L4 70091 S L3
 L5 59976 S L4 NOT PY>2000
 L6 310 S L4 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)
 L7 119 DUP REM L6 (191 DUPLICATES REMOVED)
 L8 89 S L7 NOT PY>2000
 L9 7064 S (IL-18 OR INTERLEUKIN-18 OR INTERLEUKIN(A)18 OR IL18)
 L10 37 S L9 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)
 L11 18 DUP REM L10 (19 DUPLICATES REMOVED)
 L12 16719 S GAMMA(3N) (INF OR INTERFERON) (3N) INDUC### OR GAMMA(3N) (INF OR
 L13 133 S L12 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)
 L14 49 DUP REM L13 (84 DUPLICATES REMOVED)
 L15 16 S L14 NOT (L11 OR L8)

FILE 'HOME' ENTERED AT 13:49:55 ON 18 OCT 2002

=> index bioscience

56 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L1 QUE IGIF OR ((INTERFERON-GAMA OR INTERFERON(A) GAMMA OR IF-GAMMA) (S) INDUC?)

34 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L2 QUE INF-GAMMA (S) INDUC?

56 FILES HAVE ONE OR MORE ANSWERS, 64 FILES SEARCHED IN STNINDEX

L3 QUE L1 OR L2

=> file f2, f4,f5, f1, f3, f6

L4 70091 L3

L5 59976 L4 NOT PY>2000

L6 310 L4 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)

L7 119 DUP REM L6 (191 DUPLICATES REMOVED)

L8 89 L7 NOT PY>2000

L9 7064 (IL-18 OR INTERLEUKIN-18 OR INTERLEUKIN(A) 18 OR IL18)

L10 37 L9 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)

L11 18 DUP REM L10 (19 DUPLICATES REMOVED)

L12 16719 GAMMA(3N)(INF OR INTERFERON)(3N) INDUC### OR GAMMA(3N)(INF OR INTERFERON)(3N) INDUC###(S) FACTOR

L13 133 L12 AND (ISOLEUCINE OR ILE OR THR OR THREONINE)

L14 49 DUP REM L13 (84 DUPLICATES REMOVED)

L15 16 L14 NOT (L11 OR L8)

L8 ANSWER 81 OF 89 SCISEARCH COPYRIGHT 2002 ISI (R)
 AN 1999:438151 SCISEARCH
 GA The Genuine Article (R) Number: 202VH
 TI Quantification of human interleukin 18 mRNA expression by competitive reverse transcriptase polymerase chain reaction
 AU Klein S A (Reprint); Ottmann O G; Ballas K; Dobmeyer T S; Pape M; Weidmann E; Hoelzer D; Kalina U
 CS UNIV KLIN FRANKFURT, MED KLIN 3, THEODOR STERN KAI 7, D-60590 FRANKFURT, GERMANY (Reprint); UNIV FRANKFURT, MED KLIN 3, D-6000 FRANKFURT, GERMANY
 CYA GERMANY
 SO CYTOKINE, (JUN 1999) Vol. 11, No. 6, pp. 451-458.
 Publisher: W B SAUNDERS CO, INDEPENDENCE SQUARE WEST CURTIS CENTER, STE 300, PHILADELPHIA, PA 19106-3399.
 ISSN: 1043-4666.
 DT Article; Journal
 FS LIFE
 LA English
 REC Reference Count: 16
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
 AB Interleukin 18 (IL-18) is a recently identified cytokine, originally called **interferon gamma inducing factor**, due to its capacity to **induce interferon gamma** production in **Thr** type cells. IL-18 is expressed by a wide variety of cell types including mononuclear phagocytes, osteoblasts, keratinocytes and adrenal cortex cells. To quantify human IL-18 mRNA expression in small-scale cell samples the authors developed a competitive reverse transcriptase polymerase chain reaction using a competitive template as an internal standard. This assay was demonstrated as a valid, sensitive and precise tool to quantify human IL-18 mRNA expression. IL-18 mRNA expression of primary peripheral blood monocytes, CD4(+) T cells, CD8(+) T cells, B cells and NK cells was assessed by competitive RT-PCR. Basal IL-18 expression could be detected in all types of peripheral blood mononuclear cells (PBMC). The kinetics of IL-18 mRNA expression in PBMC from healthy donors was defined in vitro after monocyte-specific (lipopolysaccharide LPS), T-cell-specific (anti-CD3) and polyclonal-unspecific stimulation (phytohaemagglutinin PHA), Only LPS led to a strong increase of IL-18 mRNA expression peaking after 2 h, These results indicate that IL-18 is expressed constitutionally by all major PBMC subtypes. However, only monocyte specific stimulation resulted in a significant **induction** of IL-18 mRNA expression suggesting activated monocytes e.g. in inflammation as the main source of IL-18 expression. (C) 1999 Academic Press.

=> d 111 12 bib,abs

L11 ANSWER 12 OF 18 MEDLINE DUPLICATE 7
AN 2000405301 MEDLINE
DN 20363814 PubMed ID: 10903731
TI **IL-18** activates STAT3 in the natural killer cell line
92, augments cytotoxic activity, and mediates IFN-gamma production by the
stress kinase p38 and by the extracellular regulated kinases p44erk-1 and
p42erk-21.
AU Kalina U; Kauschat D; Koyama N; Nuernberger H; Ballas K; Koschmieder S;
Bug G; Hofmann W K; Hoelzer D; Ottmann O G
CS Department of Hematology, Johann Wolfgang Goethe University Hospital,
Frankfurt/Main, Germany.. Kalina@em.uni-frankfurt.de
SO JOURNAL OF IMMUNOLOGY, (2000 Aug 1) 165 (3) 1307-13.
Journal code: 2985117R. ISSN: 0022-1767.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 200008
ED Entered STN: 20000901
Last Updated on STN: 20000901
Entered Medline: 20000822
AB **IL-18** is a regulator of NK cell function which
utilizes the serine-**threonine** IL-1R-associated kinase signal
transduction pathway and may activate additional not yet characterized
signaling pathways. Here we evaluated **IL-18**-mediated
signal transduction using the human NK cell line NK92 as a model. NK92
cells were shown by RT-PCR to express all three **IL-18**
receptor chains (IL-18R, accessory protein-like chain, **IL-**
18-binding protein). Stimulation by **IL-18**
strongly enhanced tyrosine phosphorylation of STAT3 and of the
mitogen-activated protein kinases (MAPK) p44erk-1 and p42erk-2. In
contrast, STAT5 was not activated. The cytolytic activity of NK92 against
K562 target cells, which was augmented in a dose-dependent manner by
IL-18 in the presence of trace amounts of IL-2, was
suppressed by the specific inhibitors of MAPK pathways (PD098059 and
SB203580). Similarly, the stimulatory effect of **IL-18**
on IFN-gamma protein production, given in conjunction with IL-2, was
counteracted by inhibition of MAPK. **IL-18** alone failed
to stimulate IFN-gamma protein production despite inducing expression of
IFN-gamma mRNA. IL-2 alone stimulated neither IFN-gamma mRNA expression
nor IFN-gamma protein production. **IL-18** did not
stimulate proliferation of NK92 cells, either alone or in combination with
IL-2 or IL-12. Inhibition of the MAPK pathway did not significantly alter
the IL-2- and IL-12-induced proliferation of NK92 cells, whereas the Janus
kinase/STAT pathway inhibitor AG490 strongly suppressed proliferation.
MAPK activation appears to play a prominent role in **IL-**
18 signaling, being involved in transcription and translation of
IL-18-induced IFN-gamma mRNA and **IL-18**
-induced cytolytic effects. In contrast, proliferation of NK92 cells is
not affected by MAPK p44erk-1 and p42erk-2.